

REMARKS/ARGUMENTS

Favorable reconsideration of this application as presently amended and in light of the following discussion is respectfully requested.

Claims 1-11, 18-21, 28-31 and 36-43 are pending in the present application. Claims 12-17, 22-27, 32-35 and 44-47 have been canceled and claims 1, 2, 4-6, 8-10, 18, 28-31, 36 and 39-43 have been amended by the present amendment.

In the outstanding Office Action, claims 2-5, 12-17, 22-27 and 32-35 were withdrawn from further consideration; claims 1, 11, 28-31 and 36-47 were rejected under 35 U.S.C. § 102(b) as anticipated by Wright et al.; claims 6-10 were indicated as allowable if rewritten in independent form; and claims 18-21 were allowed.

Applicants thank the Examiner for the indication of allowable subject matter.

Claims 1, 11, 28-31 and 36-47 stand rejected under 35 U.S.C. § 102(b) as anticipated by Wright et al. This rejection is respectfully traversed.

Amended independent claim 1 is directed to an apparatus for reducing distortion of a power amplifier including a controller that compares a signal fed back from the power amplifier and an input signal and generates temperature and power/phase compensation coefficients and a frequency compensation coefficient based on the comparison, and a pre-distorter that adjusts the input signal based on the temperature and phase/power coefficients and the frequency compensation coefficient generated by the digital pre-distorter controller. Independent claims 28, 26 and 40 include similar features in a varying scope.

In a non-limiting example, Fig. 11 illustrates a distorter 100 comparing a signal fed back from a power amplifier 400 (see Fig. 6, for example) and an input signal V_{ref} and generating temperature and power/phase compensation coefficients V_{coef1} and a frequency compensation coefficient V_{coef2} . Using these compensation coefficients, the pre-distorter 100 adjusts the input signal based on the generated coefficients.

The Office Action indicates Wright et al. discloses temperature and frequency compensation coefficients in paragraphs [0273], [0375] and [0480]. However, it is respectfully noted Wright et al. does not teach or suggest using the claimed temperature, power/phase and frequency coefficients as in the present invention.

Accordingly, it is respectfully submitted independent claims 1, 28, 36 and 40 and each of the claims depending therefrom are allowable.

Further, allowed claim 18 has been amended to correct minor cosmetic informalities.

CONCLUSION

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. Favorable consideration and prompt allowance are earnestly solicited. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, **David A. Bilodeau**, at the telephone number listed below.

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To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this, concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,
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